

FIG. 1

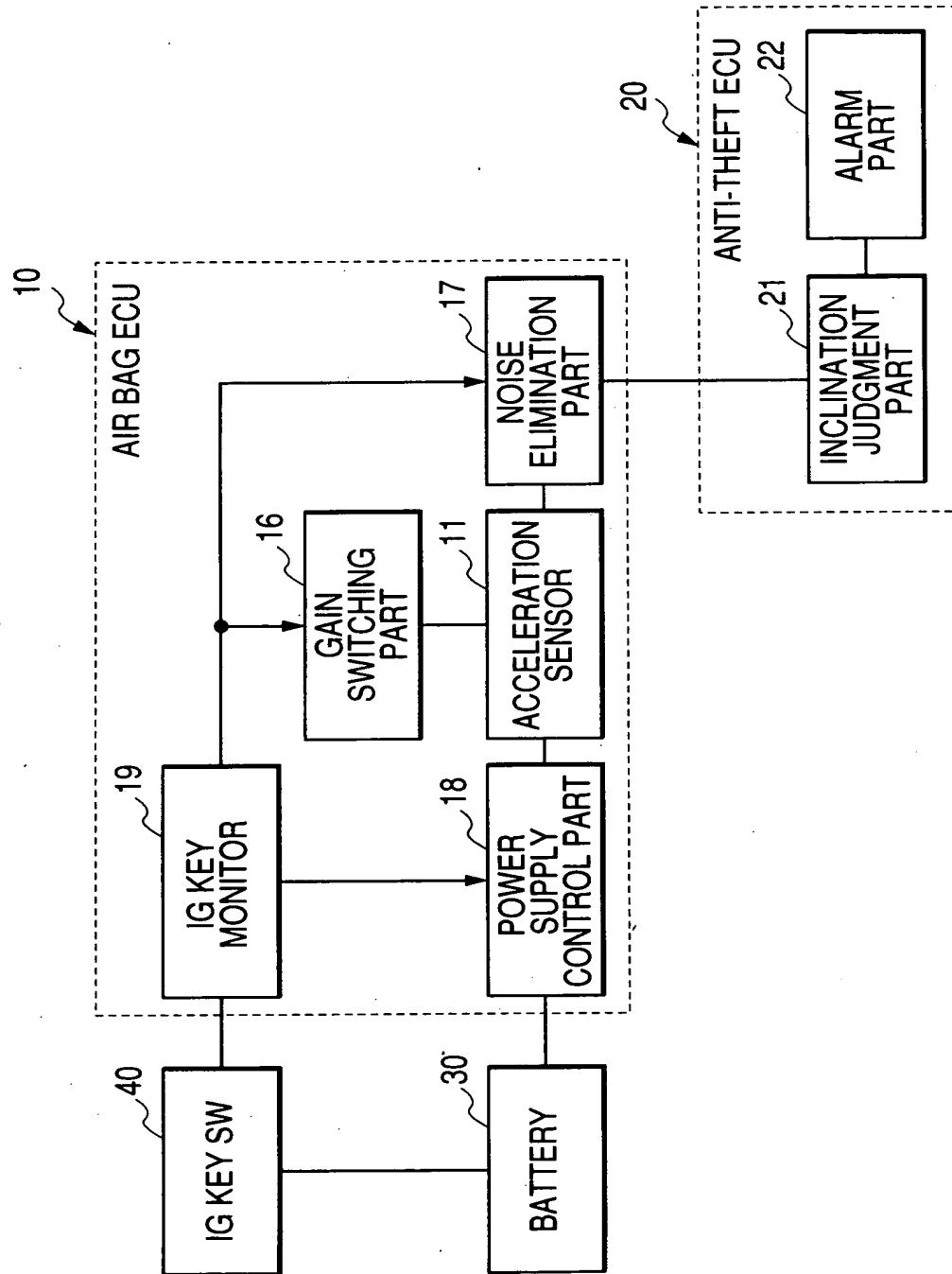


FIG. 2A

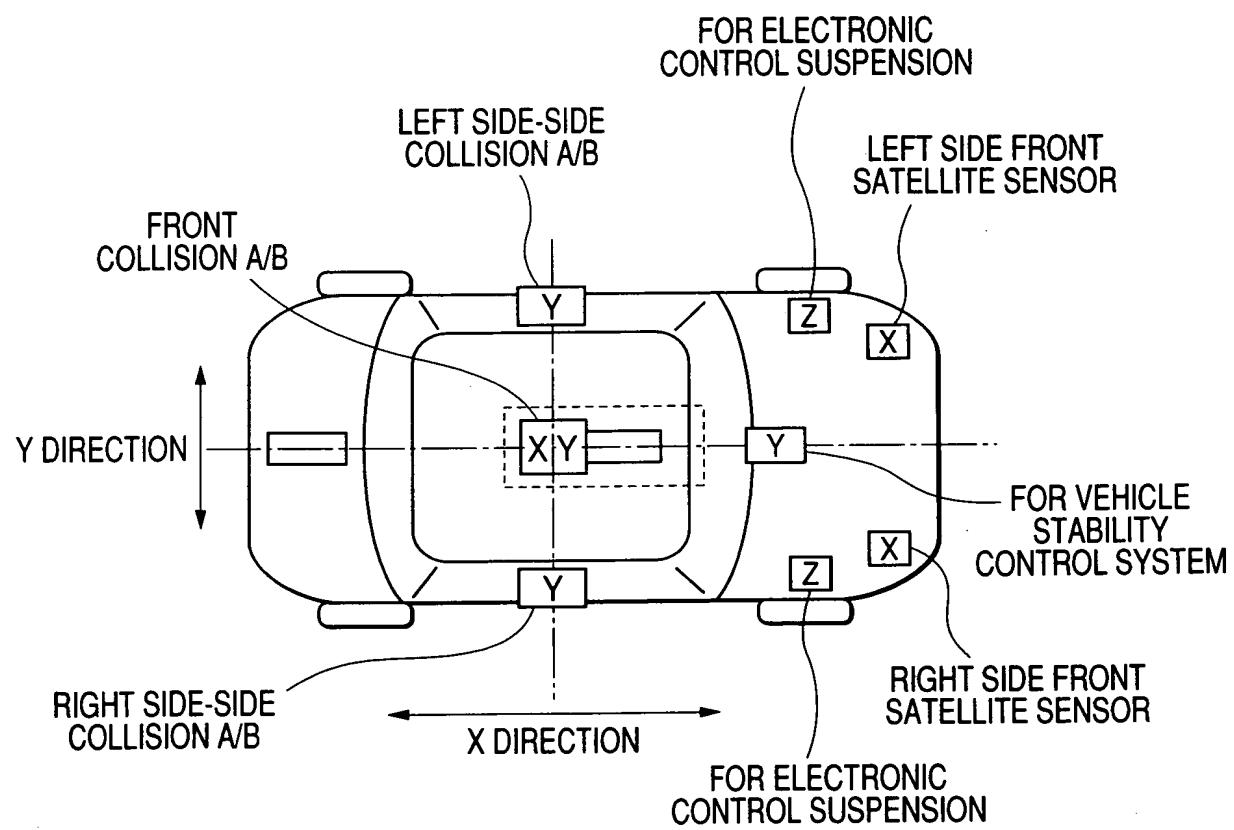
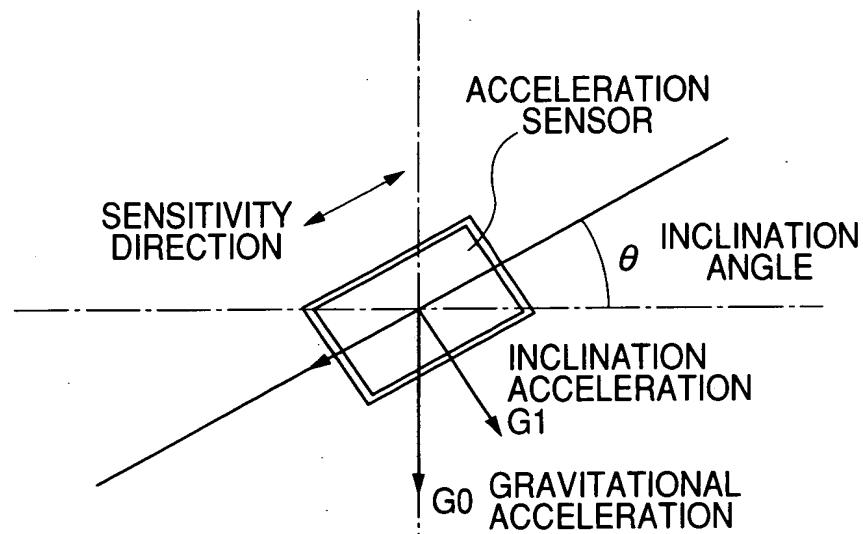


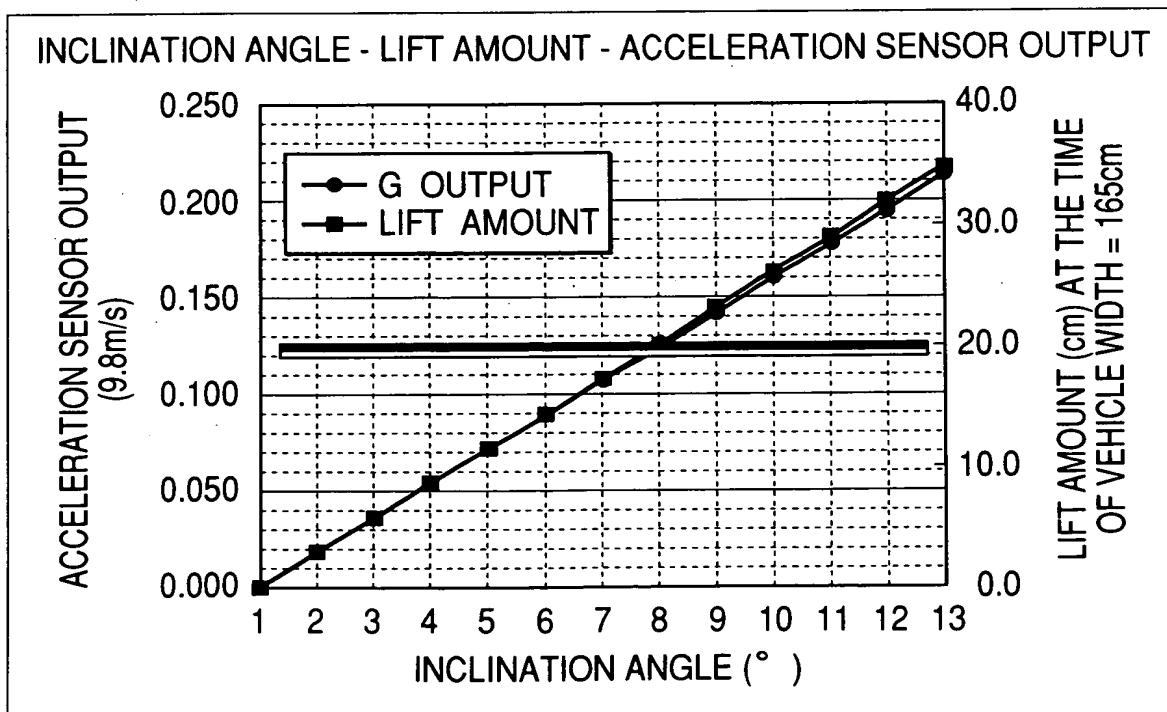
FIG. 2B



$$(\text{ACCELERATION SENSOR OUTPUT} = G_0 \cdot \cos(90 - \theta))$$

$$(\text{LIFT AMOUNT} = \text{VEHICLE WIDTH} \cdot \sin \theta)$$

FIG. 2C



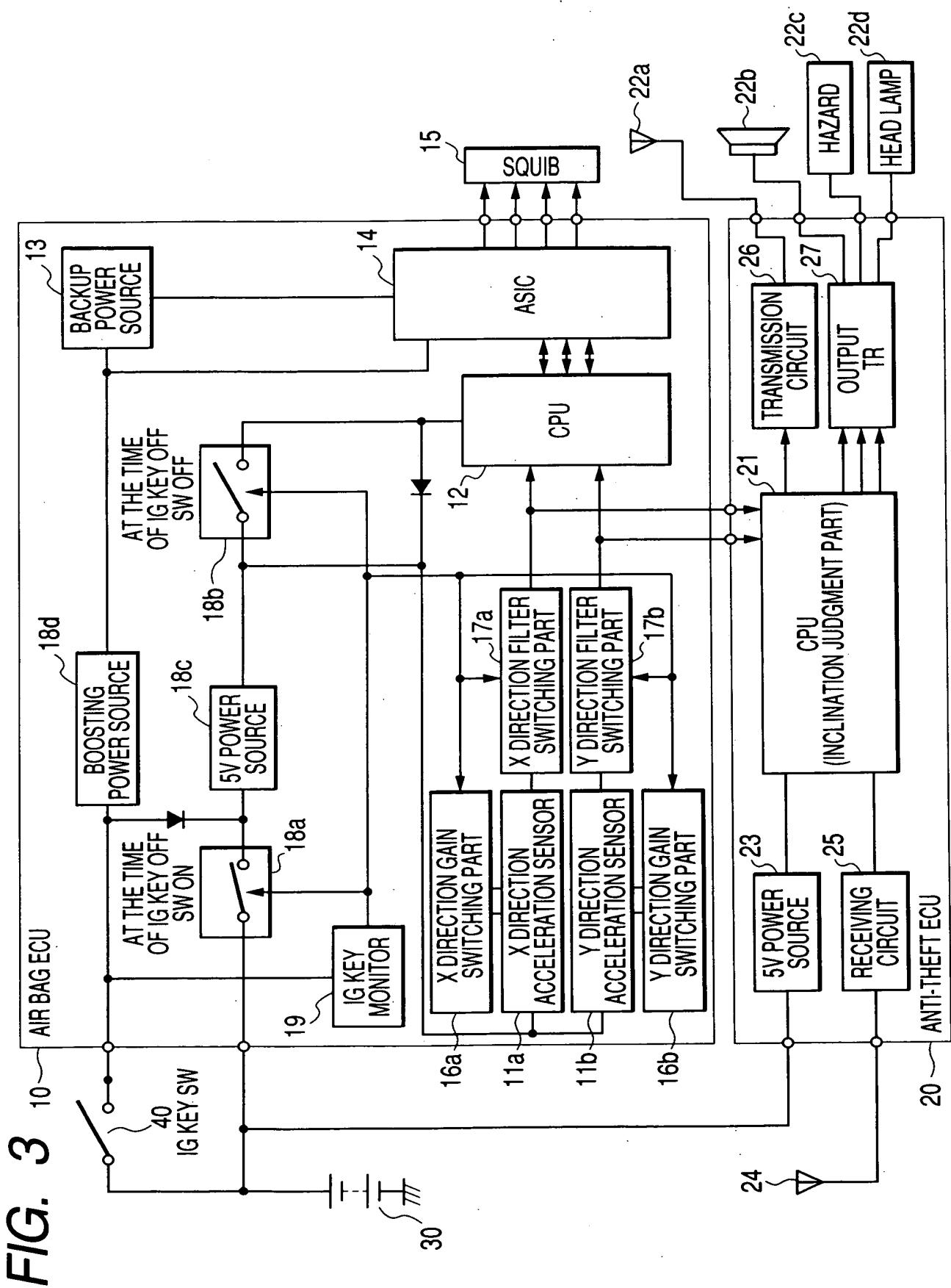


FIG. 4

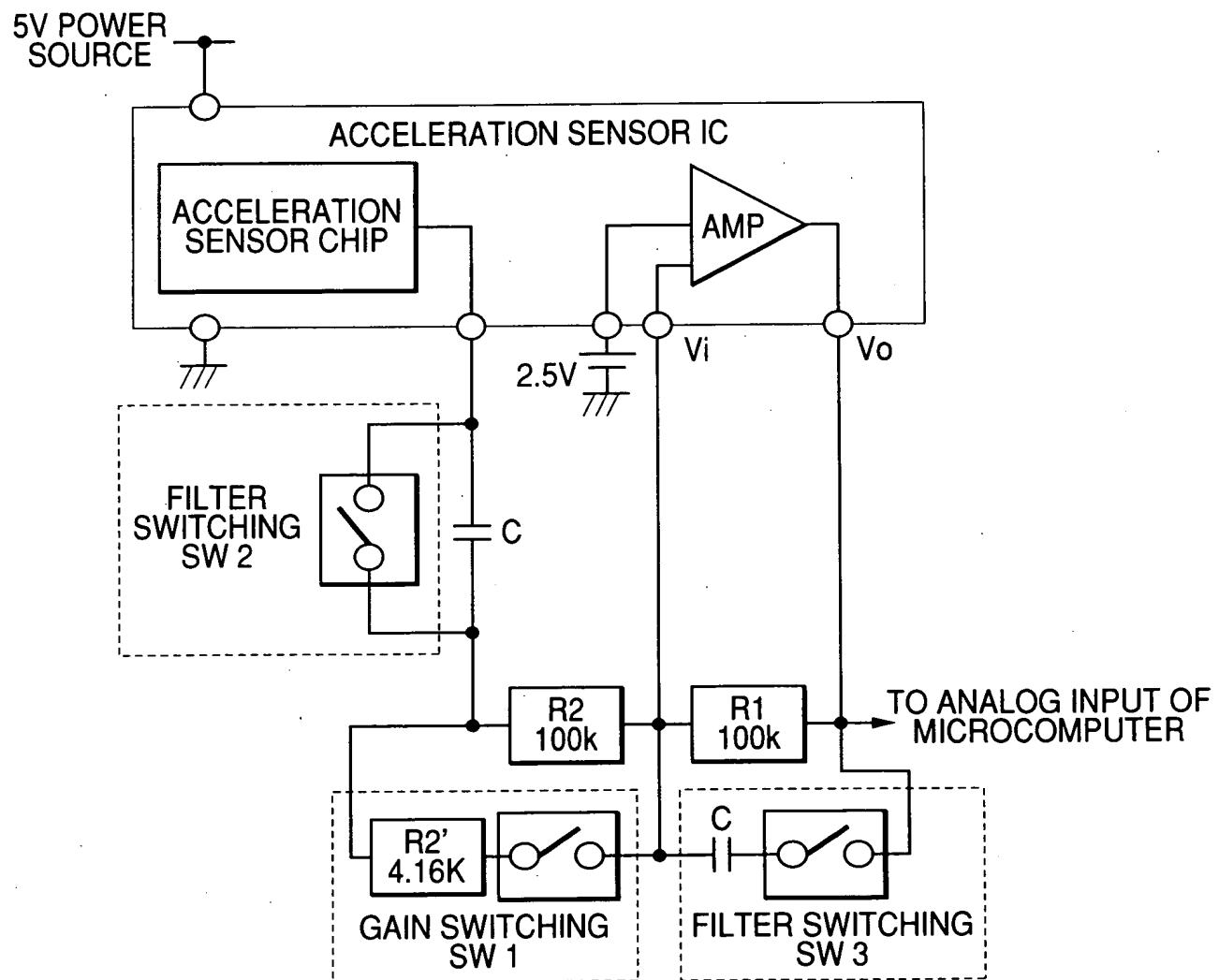


FIG. 5A

IG KEY	GAIN SWITCHING SW 1	FILTER SWITCHING SW 2	FILTER SWITCHING SW 3	GAIN	CUTOFF FREQUENCY
ON	OFF	OFF	OFF	$\pm 50G$	200Hz
OFF	ON	ON	ON	$\pm 2G$	50Hz

FIG. 5B

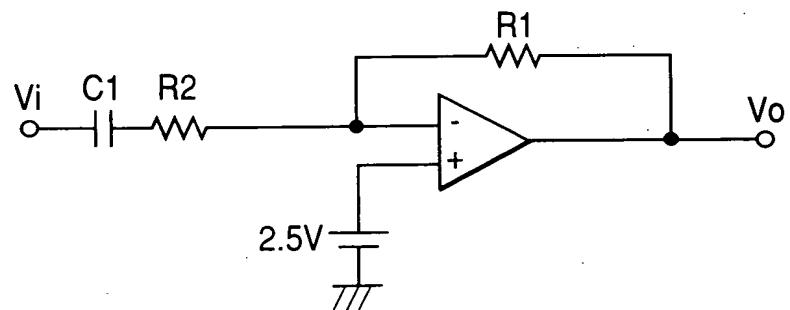


FIG. 5C

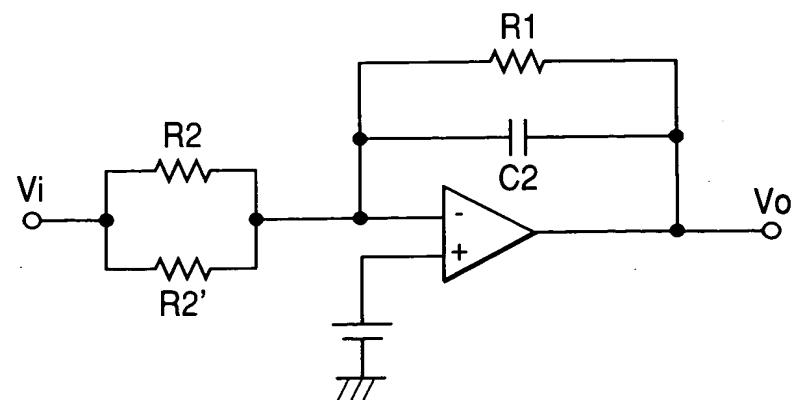


FIG. 6

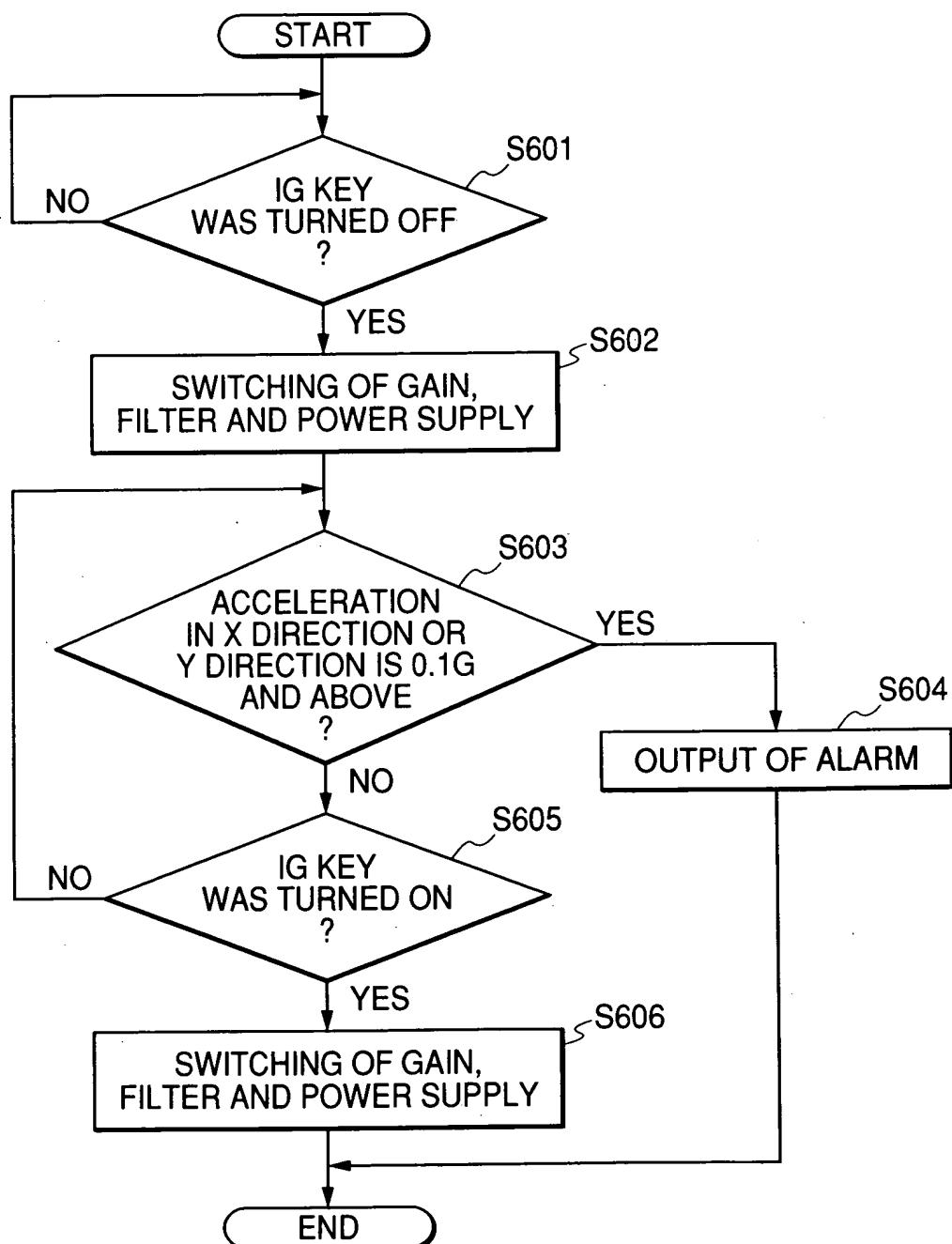


FIG. 7

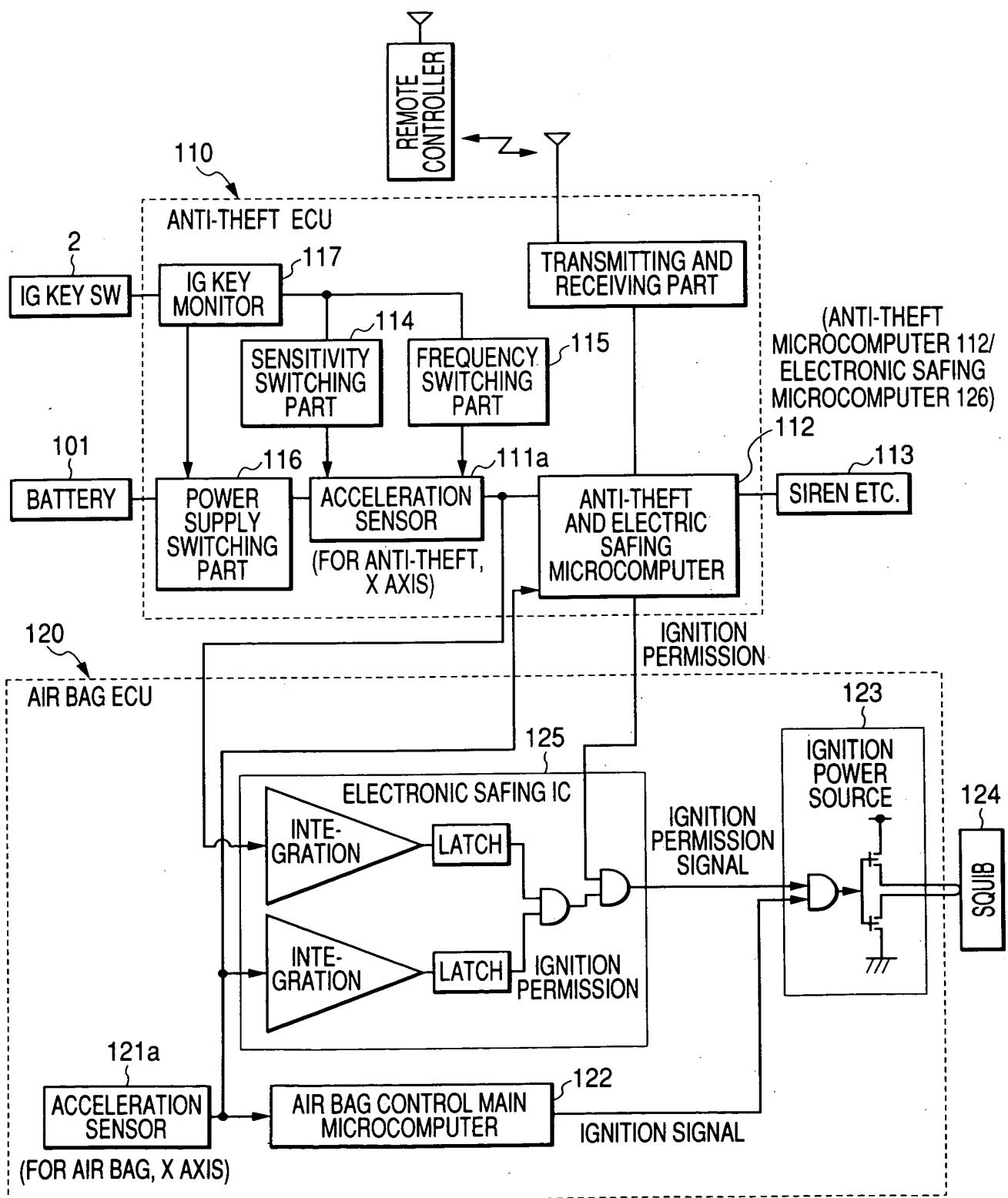


FIG. 8

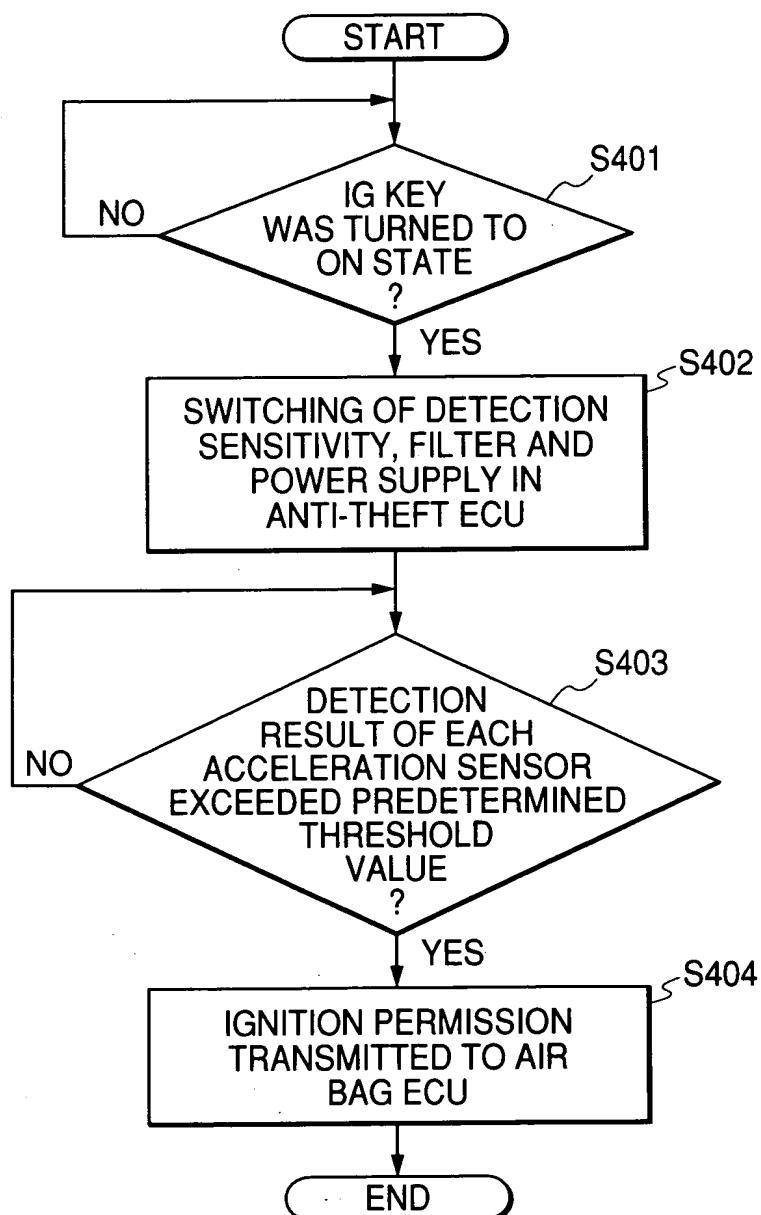


FIG. 9

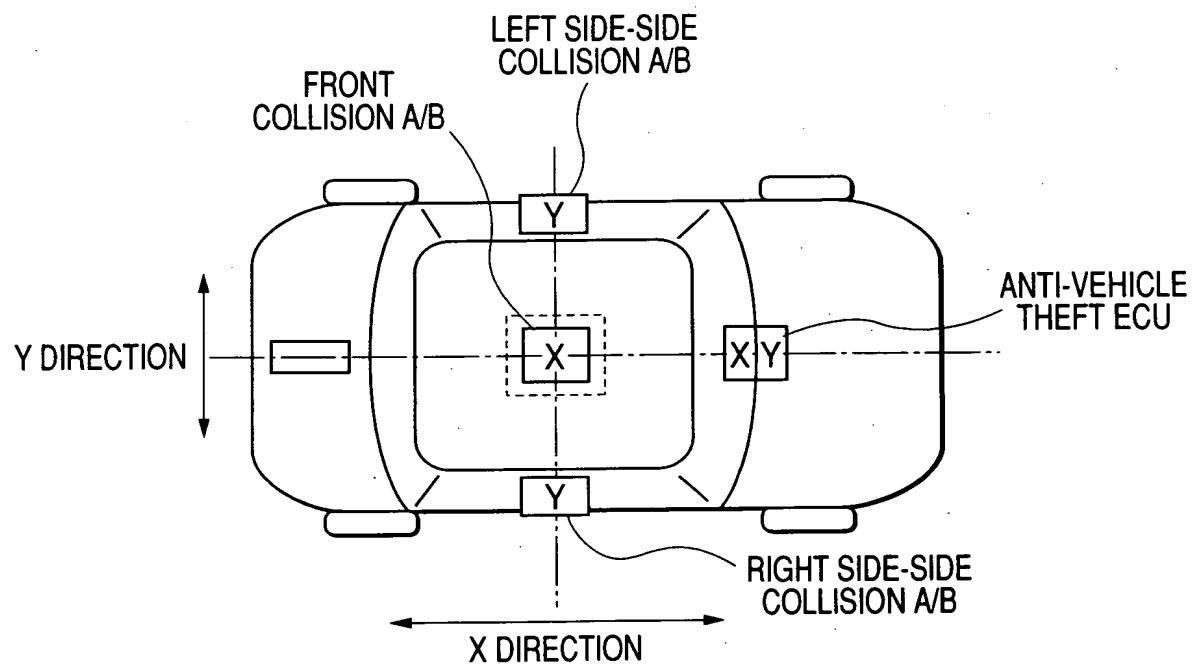


FIG. 10

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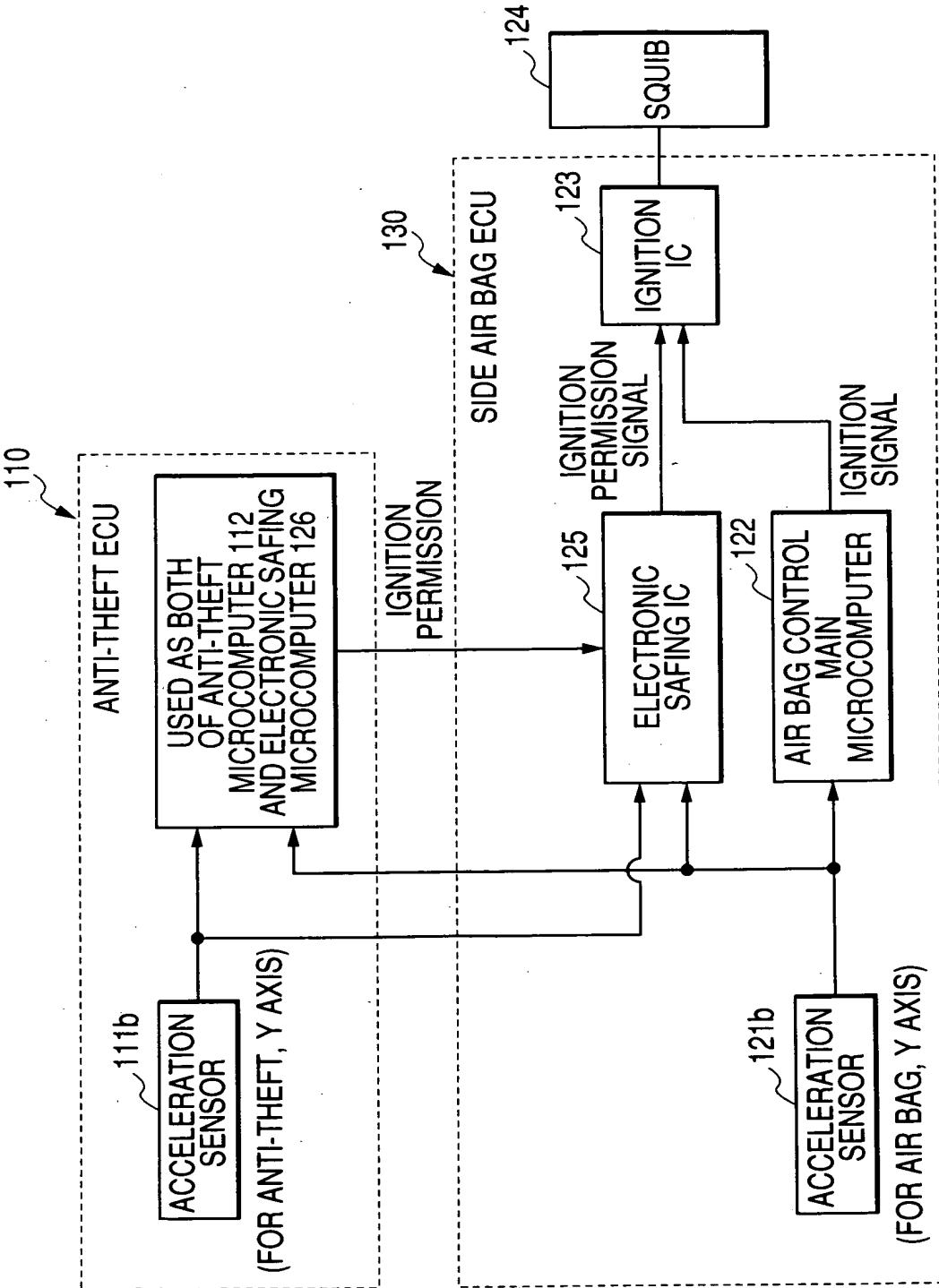


FIG. 11

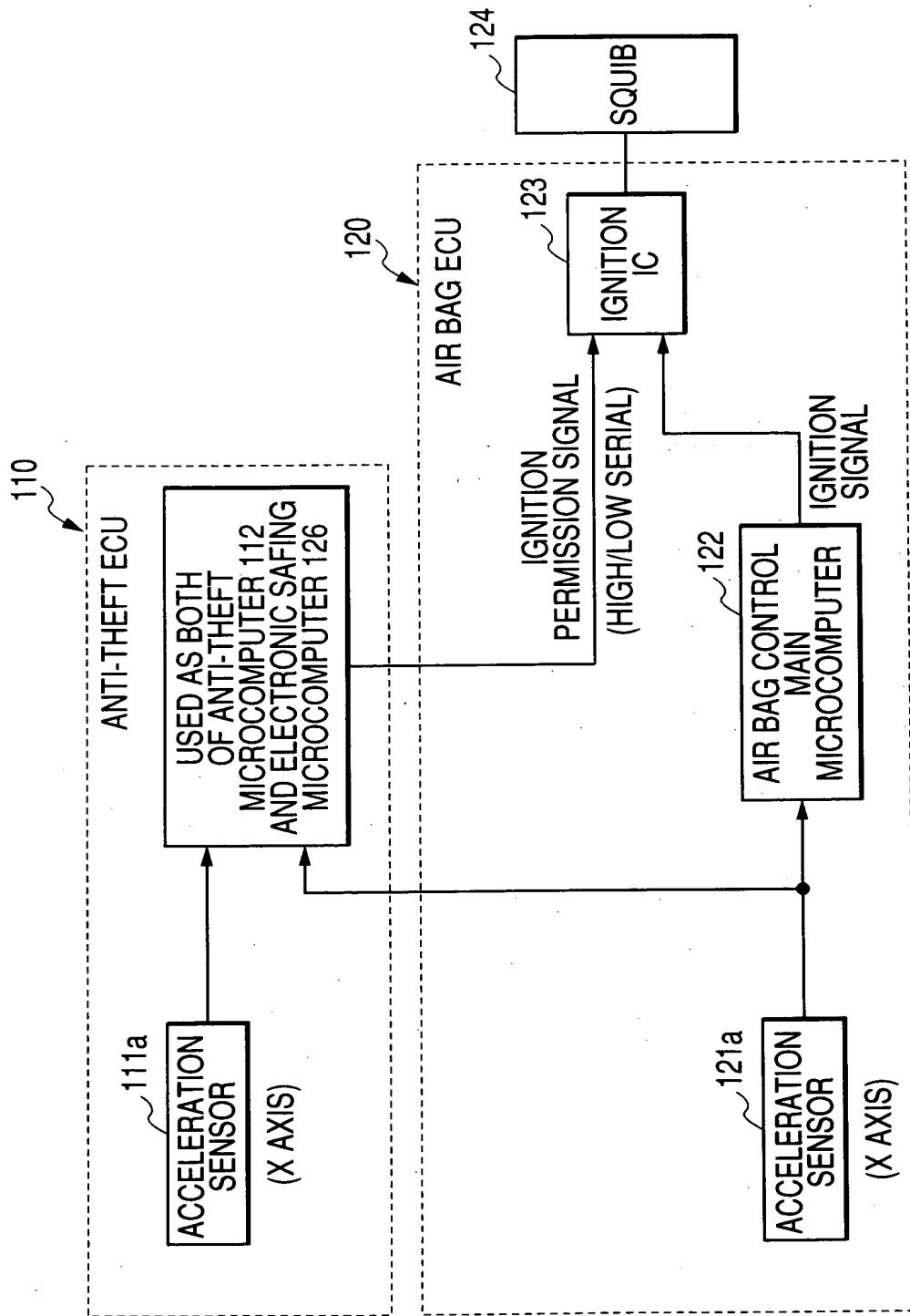


FIG. 12

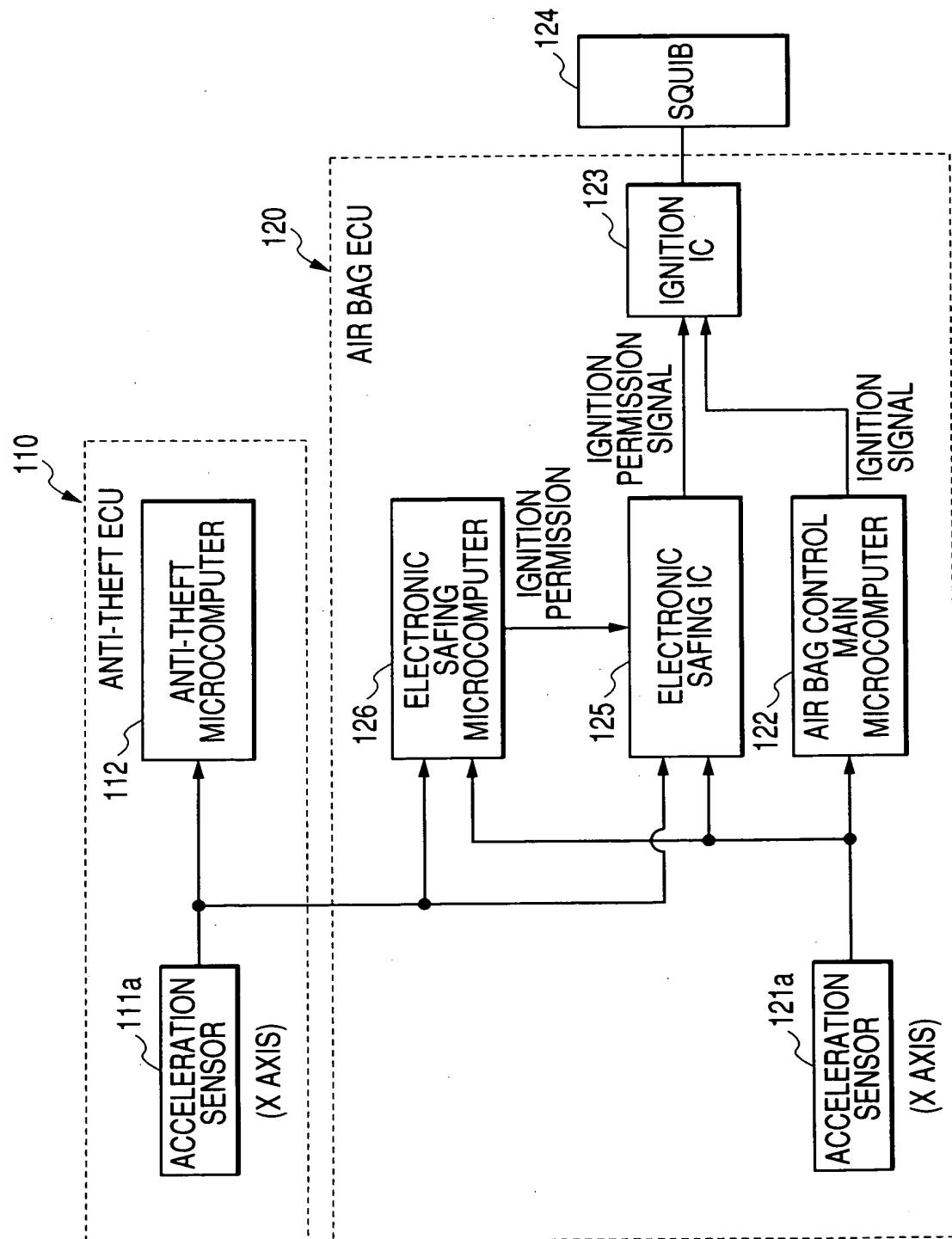


FIG. 13

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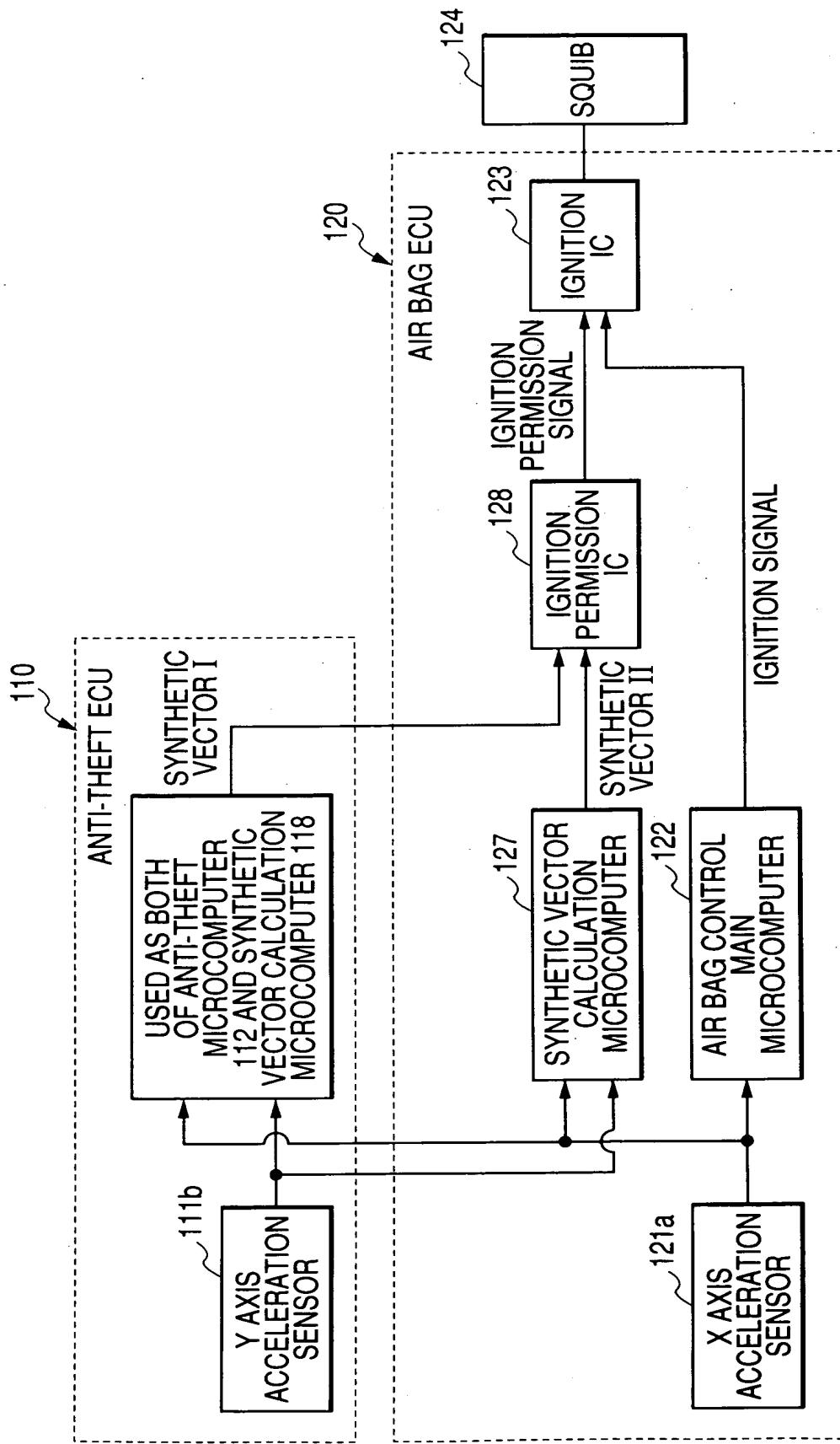


FIG. 14

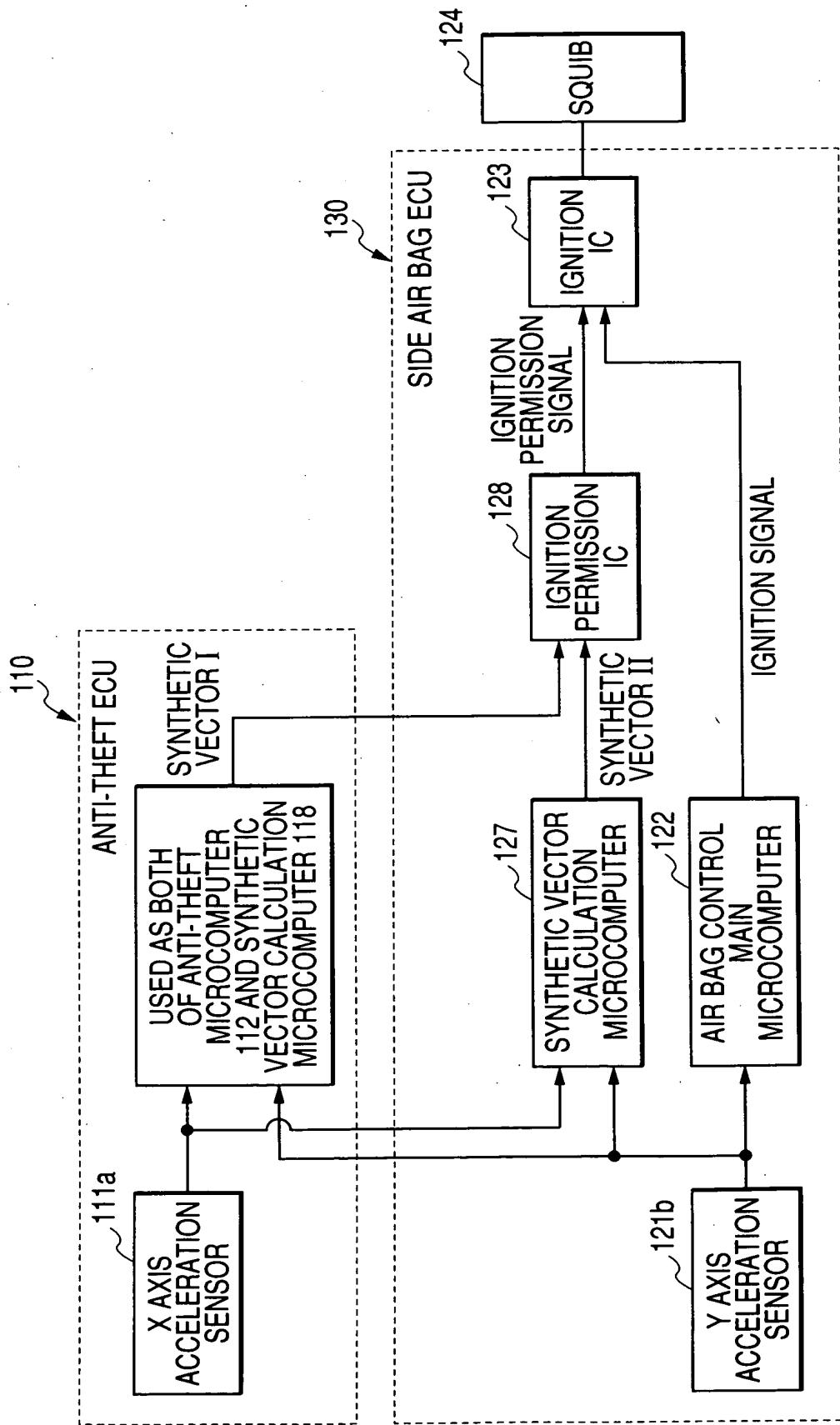


FIG. 15

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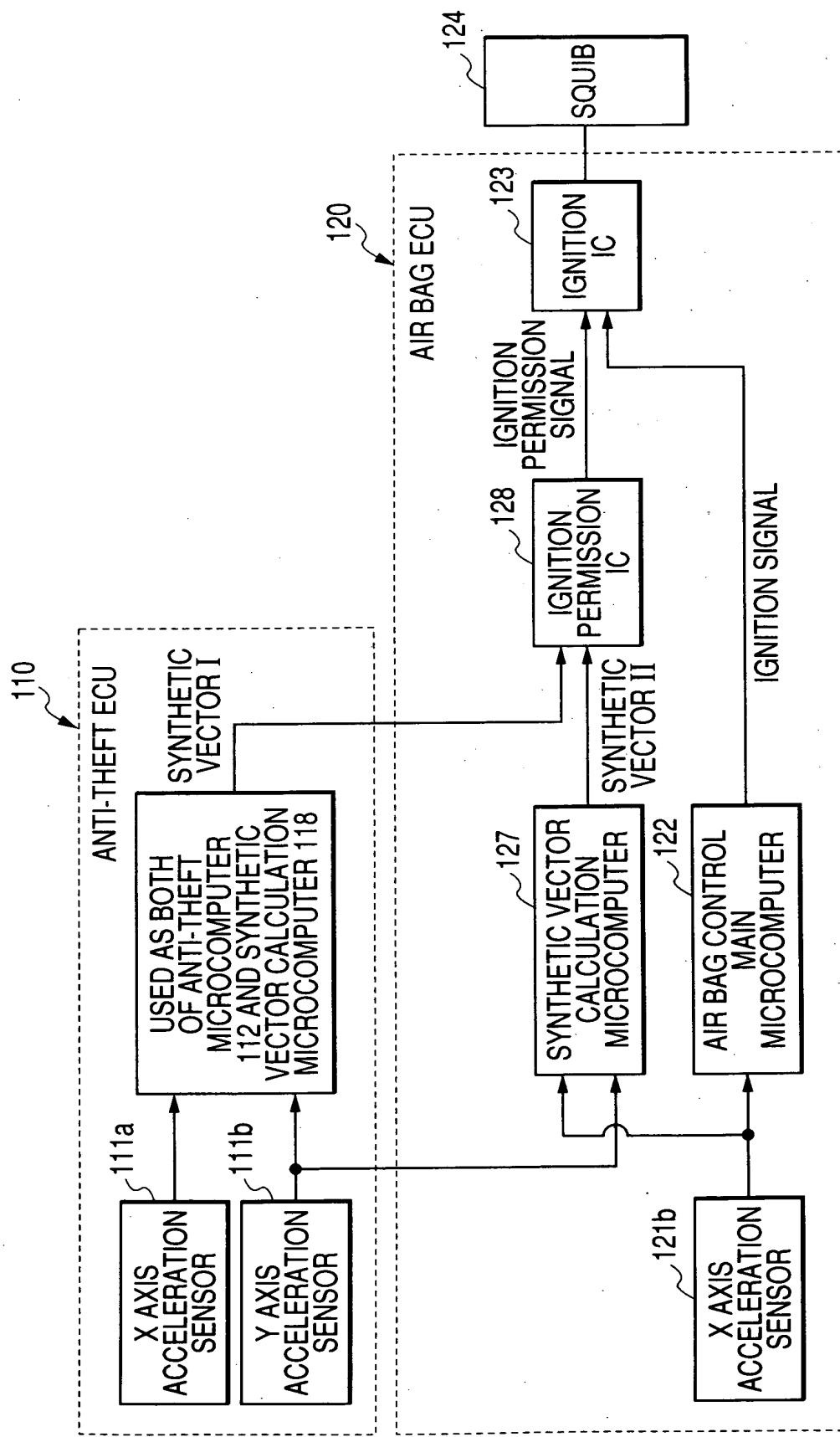


FIG. 16

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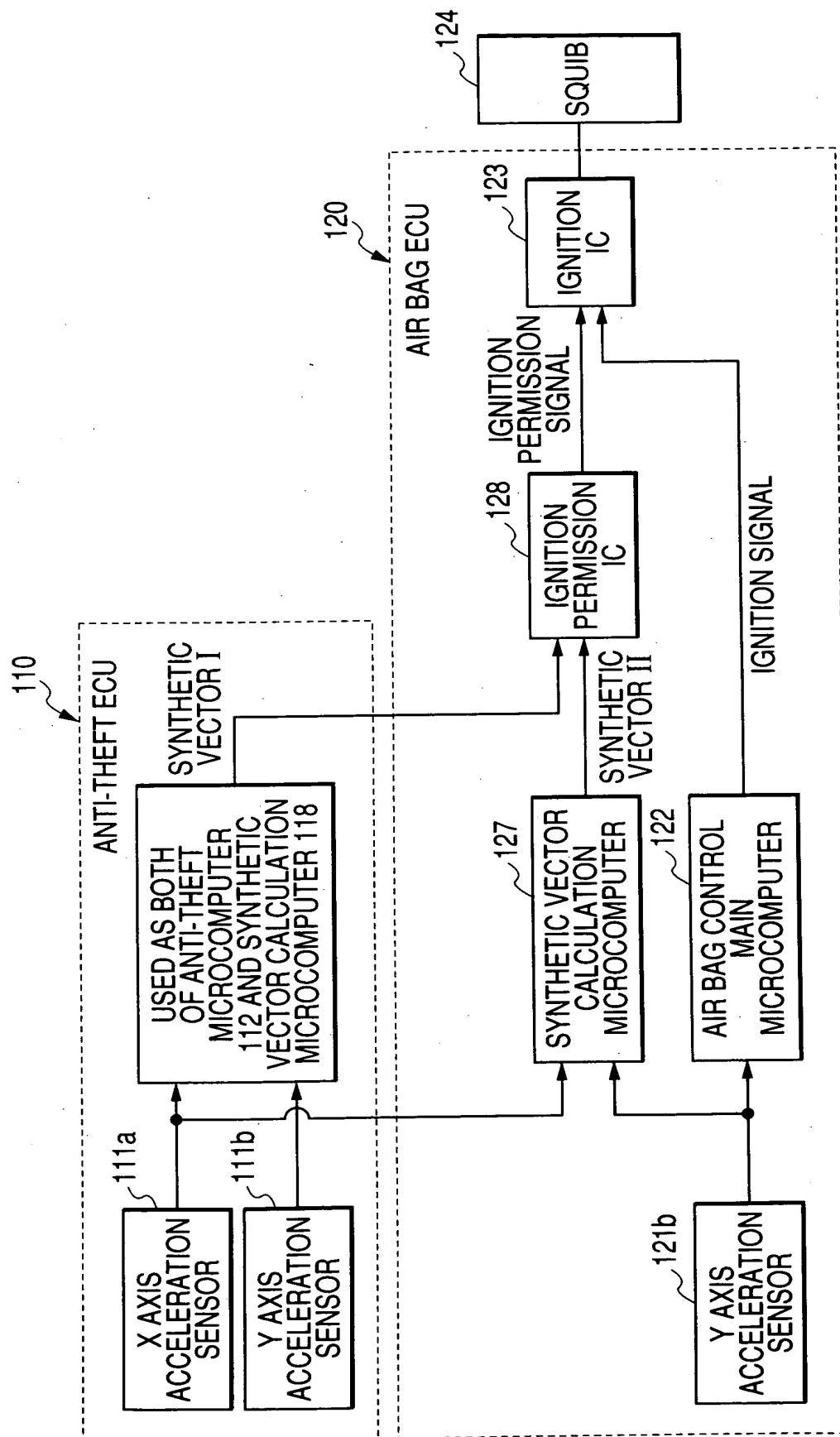


FIG. 17

